

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method ~~comprising: for determining a time of execution for tasks to be performed by a mobile wireless communications terminal (101), wherein said method comprises the steps of~~

receiving in the mobile wireless communication terminal (101) one or more instructions (301) to respectively perform one or more tasks that can be executed in said terminal with a delay (302),
storing said instructions in a queue in said terminal,
checking (303) in said terminal (101) whether said terminal (101) is coupled to a charging device (102), and
executing in said terminal said tasks upon recognizing an electrical connection between said mobile terminal (101) and said charging device (102) wherein said execution of said tasks in said terminal is postponed to a later point in time.

2. (Currently Amended) A method according to claim 1, wherein ~~the step of said~~ receiving instructions includes receiving instructions from the user via the user interface ~~(202) of said mobile terminal (101).~~

3. (Currently Amended) A method according to claim 1, wherein ~~the step of said~~ receiving instructions includes receiving instructions generated internally in said mobile terminal ~~(101) triggered by a maintenance or update process.~~

4. (Currently Amended) A method according to claim 1, wherein the method further includes ~~the steps of transferring at least part of the data to be processed in said instructions from said terminal to said charging device (102) for storage (209), and retrieving said data during said step of executing said tasks.~~

5. (Currently Amended) A method according to claim 1, wherein the method further includes ~~the steps of transferring at least part of the data to be processed in said~~

~~instructions from said terminal to said charging device (102) for storage (209) and processing (210), and retrieving processed data from said charging device (102) to said terminal during said step of executing said tasks.~~

6. (Currently Amended) A method, ~~comprising: for determining the time of execution for tasks to be performed by a mobile wireless communications terminal (101), wherein said method comprises the steps of~~

~~studying, in a mobile wireless communications terminal, under a period of time the terminal battery charging routines of the user of said terminal,~~

~~calculating in said terminal time intervals (401) with a high likelihood that said mobile terminal (101) is being connected to the charger (102),~~

~~receiving in the mobile terminal instructions to perform one or more tasks that can be executed with a delay (402),~~

~~storing the instructions in a queue in said terminal,~~

~~executing in said terminal said tasks upon entering one of said calculated time intervals (403) wherein said execution is postponed to a later point in time.~~

7. (Currently Amended) A method according to claim 6, wherein the ~~step of~~ receiving instructions includes ~~receiving instructions from the user via the user interface (202) of said mobile terminal (101).~~

8. (Currently Amended) A method according to claim 6, wherein the ~~step of~~ receiving instructions includes receiving instructions generated internally in said ~~mobile terminal (101) triggered by a maintenance or update process.~~

9. (Currently Amended) A method according to claim 6, wherein ~~said the step of~~ executing said tasks in said time interval is made using a connection speed, ~~and/or a communications channel, or both, providing at least the a minimum accepted Quality of Service (QoS) at the lowest possible cost.~~

10. (Currently Amended) A method according to claim 6, wherein ~~said the step of~~ executing said tasks in said time intervals additionally involves an additional step of checking if the ~~mobile-terminal (101)~~ is coupled to a battery charging device ~~(102)~~, and concluding according to a predetermined set of rules whether to start executing any queued tasks or not.

11. (Currently Amended) A method, ~~comprising: for determining the time of execution for tasks to be performed by a mobile wireless communications terminal (101), wherein said method comprises the steps of~~

studying, in a mobile wireless communication terminal, under a period of time the terminal battery charging routines of a the user of said terminal,

calculating, in said terminal, a time intervals (504) with a high likelihood said mobile-terminal (101) being connected to the a charger (102), receiving in the mobile-terminal instructions to perform one or more tasks that can be executed in the terminal with a delay (502), storing the instructions in a queue in the terminal to be executed during said time interval (503),

checking (504) in the mobile-terminal (101) whether said mobile terminal is coupled to said chargera charging device (102) upon entering said time interval, and executing said tasks if that is the case; deferring the execution of said tasks in said time interval, if the mobile terminal (101) is not coupled to a charging device (102)said charger, until one of the following conditions applies (505), whichever occurs first:

the mobile-terminal (101) is connected to a charging device (102)said charger;

a the maximum time limit for postponing the execution of said tasks is approaching;

a the level of battery power available is approaching a limit putting execution of at least part of said postponed tasks at risk wherein said execution is postponed to a later point in time.

12. (Currently Amended) A mobile wireless communications terminal ~~(101)~~ capable of wireless speech and data communication over an air interface ~~(204)~~, said terminal ~~(101)~~ ~~including comprising:~~

~~_____ a processing means~~unit for processing tasks and timing means for performing timed execution of said tasks in said terminal, ~~(203)~~, ~~said terminal (101)~~ including

~~_____ a memory means~~ for storing instructions and data associated with each such task ~~(201)~~, ~~characterized in that~~ in said terminal, wherein said terminal ~~(101)~~ is ~~arranged~~configured to store received instructions for delayable tasks in a queue located in the memory ~~(201)~~, wait until coupled to a charging device ~~(102)~~ and then execute said tasks in said terminal.

13. (Currently Amended) A mobile wireless communications terminal according to claim 12, ~~characterized~~ wherein at least part of the stored instructions for delayable tasks are originally received from the user via ~~the~~a user interface ~~(202)~~ of said terminal.

14. (Currently Amended) A mobile wireless communications terminal according to claim 12, ~~characterized~~ wherein at least part of the stored instructions for delayable tasks are generated by an internal maintenance or update process ~~(201)~~ of said terminal ~~(101)~~.

15. (Currently Amended) A mobile wireless communications terminal ~~(101)~~ capable of wireless speech and data communication over an air interface ~~(204)~~, said terminal ~~including comprising:~~

~~_____ a processing means~~unit for processing tasks ~~and timing means for performing with~~ timed execution; of said tasks ~~(203)~~;

~~_____ a memory means~~ for storing instructions and data associated with each such task; and ~~(201)~~;

~~_____ an interface~~data transmission means ~~(206)~~ for data connection between said terminal ~~(101)~~ and a~~said~~ charging device ~~(102)~~, ~~wherein~~characterized in that said terminal ~~(101)~~ is ~~configured~~arranged to transfer at least part of the data to be processed in said instructions from said terminal to said charging device ~~(102)~~ for

storage ~~(209)~~ therein, and ~~arranged~~ configured to retrieve said stored data during said task execution.

16. (Currently Amended) A mobile wireless communication terminal according to claim 15, ~~characterized in that it is arranged~~ configured to transfer at least part of the data to be processed in said instructions from said terminal to said charging device ~~(102)~~ for processing ~~(210)~~, and ~~configured~~ arranged to retrieve processed data from said charging device during said ~~task~~ timed execution of said tasks.

17. (Currently Amended) A mobile wireless communications terminal ~~(101)~~ capable of wireless speech and data communication over an air interface ~~(204)~~, said terminal ~~including~~ comprising:

_____ a processing means unit for processing tasks ~~and timing means for performing with~~ timed execution; ~~of said tasks (203), and _____~~

_____ a memory means for storing instructions and data associated with each such task (201), ~~characterized in that wherein~~ wherein said processing means ~~(203)~~ unit of said terminal ~~(101)~~ are arranged is configured to study under a period of time ~~the terminal~~ battery charging routines of ~~the~~ a user of the terminal, to calculate ~~the~~ time intervals with a high likelihood that said terminal ~~(101)~~ is being connected to the a battery charger (102) and to execute the instructions stored in the memory ~~(201)~~ to perform one or more delayable tasks upon entering at least one time interval of said calculated time intervals.

18. (Currently Amended) A mobile wireless communications terminal according to claim 17, ~~characterized in that wherein~~ wherein said processing means ~~(203)~~ are unit is configured arranged to execute said tasks in said at least one time interval using a connection speed, and/or communications channel, or both, providing at least ~~the~~ a minimum accepted Quality of Service (QoS) ~~at the~~ a lowest possible cost.

19. (Currently Amended) A mobile wireless communications terminal according to claim 17, ~~characterized in that wherein~~ wherein said processing means ~~(203)~~ are unit is configured arranged to check during said execution of the instructions phase if said mobile terminal ~~(101)~~ is coupled to a battery charging device (102), and to conclude

according to a predetermined set of rules whether to start executing any queued task or not.

20. (Currently Amended) A mobile wireless communications terminal according to claim 18, ~~characterized in that it is arranged~~configured to communicate with ~~the~~ service provider, ~~and/or network carrier, or both,~~ for enabling ~~the~~ utilization of ~~favourable~~favorable traffic conditions and transfer costs.

21. (Currently Amended) A mobile wireless communications terminal ~~(101)~~ capable of wireless speech and data communication over an air interface ~~(204)~~, said terminal ~~including~~comprising:

_____ a processing ~~means~~unit for processing tasks ~~with~~and ~~timing means for performing timed execution; of said tasks (203);~~

_____ a memory ~~means~~ for storing instructions and data associated with each such task ~~(201)~~, ~~characterized in that wherein~~ said terminal ~~(101)~~ is ~~arranged~~configured to study under a period of time ~~the terminal~~ battery charging routines of ~~the~~ a user, to calculate time intervals with a high likelihood the ~~mobile terminal (101) being~~ is connected to a the charger ~~(102)~~, to receive in the ~~mobile terminal (101)~~ instructions to perform one or more of said tasks that can be executed with a delay, to store the instructions in a queue ~~(201)~~ located in the memory ~~(201)~~, to check in said terminal whether it is coupled to ~~a charging device (102)~~ said charger, to execute said tasks if that is the case or to defer the execution of said tasks in said time interval, if the ~~mobile terminal (101) is not coupled to a charging device (102)~~ said charger, until one of the following conditions applies, whichever occurs first:

_____ the ~~mobile terminal (101)~~ is connected to ~~a charging device (102)~~ said charger;

_____ ~~a~~ the maximum time limit for postponing the execution of said tasks is approaching;

_____ ~~a~~ the level of battery power available is approaching a limit putting execution of ~~at least part of said postponed tasks~~ at risk.

22. (Currently Amended) A mobile wireless communications terminal according to claim 12, ~~characterized in that~~ wherein said terminal it is substantially a ~~an~~ UMTS ~~third generation~~ terminal.

23. (Currently Amended) A charging device ~~(102)~~ capable of charging ~~at~~ the battery ~~(205)~~ of a mobile wireless communications terminal ~~(101)~~, said charging device ~~(102)~~ including ~~comprising:~~

a data transmission means (208) interface for a two-way data connection between said charging device (102) and a ~~said mobile wireless communications terminal when connected for said charging; and (101), said charging device (102) including~~

a memory means for storing data, (209), characterized in that wherein said charging device (102) is configured arranged to store at least part of the data to be processed in the according to instructions associated with one or more tasks to be executed by said terminal (101) for execution at least in part in said terminal with execution of said tasks postponed until connected to said charging device, and arranged configured to return said stored data to said mobile terminal (101) when requested by said terminal, (101) wherein said postponed tasks are terminal background tasks or tasks involving communication of data over an air interface connecting said terminal to a mobile wireless communication network.

24. (Currently Amended) A charging device ~~(102)~~ capable of charging ~~at~~ the battery ~~(205)~~ of a mobile wireless communications terminal ~~(101)~~, said charging device ~~(102)~~ including a data transmission means (208) interface for a two-way data connection between said charging device (102) and a ~~said mobile wireless communications terminal (101), said charging device (102) including a memory means for storing data (209), characterized in that wherein said charging device (102) comprises a processing means (210) unit for the sharing task execution sharing between said terminal (101) and said charging device (102) wherein sharing task execution comprises sharing execution of postponed terminal background tasks carried out at least in part in said terminal, or sharing execution of tasks initiated by a user input to said terminal and carried out at least in part in said terminal, or~~

sharing tasks involving communication of data over an air interface connecting said terminal to a mobile wireless communication network, or any combination thereof.

25. (Currently Amended) A charging device according to claim 24, characterized in ~~that it comprises~~further comprising a processing unit means (210) for the task execution on behalf of said terminal ~~(101)~~.

26. (Currently Amended) A ~~method, comprising; process for execution of tasks in a mobile wireless communications terminal (101) capable of wireless speech and data communication over an air interface (204); said terminal including processing means for processing tasks and timing means for performing timed execution of said tasks (203); said terminal including memory means for storing instructions and data associated with each such task (201); characterized in that said process comprises the steps wherein~~

receiving in a said mobile wireless communications terminal (101) receives
at least one instruction to perform a task (301),
identifying in said terminal (101) identifies whether the task as is a delayable
background task (302) and, if so,
said terminal (101) stores the storing data related to the execution of said
delayable task in a queue located in the a memory (201) of said terminal,
said terminal (101) executes executing said task (303) using the a processing
means (203) unit of said terminal (101) upon recognizing a connection
between the battery (205) of said terminal (101) and the a power source (207)
of a charging device (102) for charging a battery of said terminal, wherein
execution of said task is delayed.

27. (Currently Amended) A process according to claim 26, characterized in ~~that~~
wherein said received at least one instructions for to perform a delayable tasks are is
received from the a user via the a user interface (202) of said terminal (101).

28. (Currently Amended) A process according to claim 26, characterized in ~~that~~
wherein said at least one received instructions to perform a task for delayable
tasks are is generated internally in said mobile terminal (101), triggered by a

maintenance or update process stored in the memory (201) of the terminal and executed in the by a processing unit (203) of the terminal.

29. (Currently Amended) A process according to claim 26, characterized in that wherein the information for said identification of said identifying whether the task is a delayable task tasks is included in said received at least one instruction to perform a task, instructions.

30. (Currently Amended) A process according to claim 26, characterized in that wherein the information for said identification of identifying whether a task is a delayable task tasks is found from a predetermined list of task urgencies stored in the memory of said terminal (201).

31. (Currently Amended) A method comprising: process for execution of tasks in a mobile wireless communications terminal (101) capable of wireless speech and data communication over an air interface (204), said terminal including processing means for processing tasks and timing means for performing timed execution of said tasks (203), said terminal including memory means for storing instructions and data associated with each such task (201), characterized in that said process comprises the steps wherein

receiving in said a mobile terminal (101) receives at least one instruction to perform a task (401),

identifying in said terminal (101) identifies if the task as is a delayable background task (402) and, if so,

storing in said terminal (101) stores the data related to the execution of said delayable task in a queue located in the memory (201),

executing said delayable task in said terminal (101) executes said task using the processing unit in said terminal (203) upon entering the precalculated time interval (403) based on studying the terminal battery charging routines of the user of the terminal during which said terminal (101) is being connected to a charging device (102) wherein execution of said task is delayed.

32. (Currently Amended) A ~~process~~method according to claim 31, characterized in ~~that~~further comprising:

~~checking in said terminal (101) checks~~ during said precalculated time interval and prior to said executing said delayable task execution if said terminal (101) is coupled to said a-charging device (102), and ~~decides~~ deciding according to a predetermined set of rules whether to start executing said tasks or not.